Carrier access is a large fraction of the costs of the three IXCs who compete
vigorously in retail long distance markets where a small discount in the price paid for
carrier access would translate into a significant competitive advantage.

Thus an addressability standard of 25 percent of the demand appears to be a reasonable, conservative threshold, above which the benefits from an increased ability for the LECs to respond to competitive pressure is likely to outweigh the possible cost from exploitation of market power. Where the same small number of large firms meet in multiple geographic and product markets as buyers and sellers of a homogeneous product that is large proportion of the buyers' expenditure, the presence of a single competitive alternative can result in immediate price reductions to all customers.<sup>52</sup>

Second since the total market supply is comprised of the incumbent LEC and new competitors, an estimate of known supply capacity for all carriers would be useful. At the very least all carriers--dominant and non-dominant--should identify its serving areas (e.g., maps, zip codes, etc.) in the tariffs it files with the FCC.

Finally, it is worth observing that the criterion of addressability captures the most immediate and important effects of remaining barriers to entry. If a large fraction of demand is addressable, then it is evident that the CAPs have successfully entered the market. The point is that the addressability criterion relies on actual entry into the local exchange. Such actions, themselves, constitute the best evidence that entry barriers are not so formidable as to preclude competitive entry.

#### C. Demand Responsiveness

The demand for carrier access services is a factor demand, not a consumer demand. In economic terms, it is a "derived" demand, depending ultimately on the underlying consumer demand for long distance services. In the theory of the firm, demand for factors of production

<sup>&</sup>lt;sup>52</sup>In contrast, IXCs have been able to avoid price reductions for low-volume customers, while lowering average revenue per minute through low-priced services to high-volume customers.

depends on the quantity of final output produced and the relative prices of all inputs to the production process. Demand responsiveness, in this context, refers to the willingness of IXCs to change suppliers of carrier access services in response to changes in the relative prices of their services. It is likely that differences in relative prices in these markets play a much more significant role in the determination of demand responsiveness than in the consumer demand markets the FCC examined in determining demand responsiveness for regulatory streamlining of AT&T services. Here, there is not a significant amount of product differentiation and little room for a variety of consumer preferences or tastes for different product characteristics. The services of different suppliers of carrier access services are technically similar and can easily be objectively compared by the small number of extremely knowledgeable firms that buy services in these markets. In addition, because carrier access services are a large fraction of the total cost of long distance services -- which, in turn, are supplied in competitive markets -- each IXC has every incentive to extract the lowest possible price from any actual or potential supplier of carrier access services, and, indeed, to supply the services itself if that alternative proves to be more cost-efficient.

Thus, in the short run, demand for services of alternative suppliers will depend, almost entirely, on the proportion of demand suppliers address and can serve with relative ease in the relevant markets in question. Of course, evidence (e.g., advertising campaigns) of the willingness of IXCs to switch suppliers could be supplied as well as by results from competitive bids or RFPs. Since the same three major consumers in these geographic markets appear in each geographic market, it would be unnecessary to ascertain their willingness to substitute away from the incumbent LEC in each market.

#### D. Conditions of Entry

Market power, however acquired, cannot persist in the absence of barriers to entry. Without entry barriers, any elevation of price above the competitive level would attract entry, expand market demand and reduce the market price towards the competitive level. To assess entry standards for relaxed regulation, however, we must be careful to distinguish between low

and high volume customer segments. For high-volume customer locations, the presence of barriers to entry into local competition posed by state regulation are moot because such customers can choose among competing carrier access suppliers even if there are no competing local service providers. In order to assure that the market for small-volume customers has been effectively opened to competition, however, it is necessary that local exchange markets be opened to competition.<sup>53</sup> Thus for small-volume customers, adoption of streamlined regulation should be conditioned on the opening of the local exchange market to competitive entry, where such opening could be objectively determined by (i) the authorization by state regulatory or legislative authority of local competition or local competitors, or (ii) the certification of at least one local competitor.

It is imperative to remember that if competitors are operating in the market, entry barriers cannot have been insurmountable.<sup>54</sup> Thus, in states where regulators have sanctioned resale and facilities-based local competition and competitors are operational, the issue of market entry is moot. Here, even the small-volume business location market segment is opened for competition, so that regulatory barriers will not prevent competitive entry from beginning to control the exercise of market power. When entry has progressed to the point that the addressability criterion is met, streamlined regulatory treatment will benefit all customers without exposing small-volume customers to exploitation.

#### V. NONDOMINANT REGULATION

The framework used in the previous section on streamlined regulation is applicable to the analysis of nondominant regulation. In fact, the only operational differences between the relief

<sup>&</sup>lt;sup>53</sup>In this customer segment, it would be unusual to have separate carrier access and local service suppliers, so that if no competitive local service alternative were available, such customers would generally not be addressable by a CAP.

<sup>&</sup>lt;sup>54</sup>Actual entry provides the strongest possible evidence on this point, but it does not prove that no barriers are present. If prices are inefficiently high because of regulation or market power, inefficient entry may occur despite the presence of barriers. Thus changes in baseline regulation are needed to control inefficient entry in current access markets.

granted under streamlined and nondominant regulatory structures is the notice period after tariffs are filed -- one-day notice under nondominant rather than the 14-days' notice. Such a difference may seem insignificant given the other benefits of streamlined regulation, such as services removed from price cap regulation and tariff filings without cost support, but as the FCC noted in its AT&T nondominance ruling, competition is better served by eliminating mechanisms which seem to foster tacit price collusion. Furthermore, price information is proprietary and highly sensitive in other competitive markets and there are no requirements that sellers provide price lists for all of their competitors to review. Once carrier access in relevant markets becomes sufficiently competitive, the FCC's requirements should be minimal and unobtrusive to incumbents and entrants alike.

In its recent reclassification of AT&T as nondominant in the supply of domestic long-distance services, the FCC adopted a wide geographic and product market definition and found that, on the whole, AT&T did not possess significant market power in that market. Applying that same analysis to the geographic, product, and customer markets for carrier access services, we could envision LECs having nondominant status for particular relevant markets while retaining dominant status and corresponding regulation in others. There is nothing inherently peculiar about such a regulatory outcome. Local competition takes place in local markets, and if regulation is to keep pace with the reduction in the regulated firm's market power, there will inevitably be a dispersion of regulatory constraints across regions.

Economists are careful to note that continued regulation has very real costs in telecommunications markets, and if an error must be made, it should be made in favor of premature deregulation rather than continued unnecessary regulation. An example of such regulation might be the tariff filing requirements that pertained to AT&T as a dominant carrier and the inadvertent effect of those requirements to facilitate tacit price coordination among the large IXCs. In its Non-Dominant Order, the FCC notes that

the evidence in the record is conflicting and inconclusive as to the issue of tacit price coordination among AT&T, MCI and Sprint with respect to basic schedule rates or residential rates in general...We believe, however, that this problem, to the extent it may exist, is a problem generic to the interexchange industry and not specific to AT&T. We thus believe these concerns are better addressed by

removing regulatory requirements that may facilitate such conduct, such as the longer advance notice period currently applicable only to AT&T...<sup>55</sup>

Over-regulation is not benign, and uncertainty in its application should be judged in favor of less, rather than more.

Finally, as we discussed in the context of streamlined regulation, barriers to entry theoretically can constitute an important constraint on the supply response of potential competitors. As the Notice observes for immediate baseline reforms to regulation:

lowering entry barriers is the most appropriate mechanism for conditioning additional price cap flexibilities because additional flexibilities within the price cap framework are forms of regulatory relief that are intended to allow the LECs to respond to emerging competition, and in some cases that allow efficient competition to occur.<sup>56</sup>

To classify a LEC as non-dominant in a market -- i.e., to certify the absence of significant market power in that market -- it is thus necessary to require that regulatory entry barriers, in fact, be absent. Key to such a requirement for small-volume business locations is the removal of regulatory entry barriers to local competition. Evidence of this removal is that local competition is permitted and that the LEC in question has complied with whatever requirements the state has established to implement local competition. Under these circumstances, initial entry and expansion by competitors could not be constrained by the LEC's adaptation to local exchange competition, and, in concert with the more stringent standard for addressability, meeting such entry barrier requirements would fully justify non-dominant regulatory treatment in the market in question. However, we must stress that if the state markets are legally open to competition and state regulators certify that the incumbent is meeting all of the competitive criteria, then market entry is not an issue in that jurisdiction.

<sup>55</sup>AT&T Non-Dominant Order, at ¶83.

<sup>&</sup>lt;sup>56</sup>Second Further Notice, at ¶ 106.

#### A. Standards for Reclassification

To an economist, nondominance is synonymous with the lack of power over price in particular relevant markets. Accordingly, to be reclassified as nondominant, a LEC service must face sufficient substitutes that the persistence of a supracompetitive price would lead customers to change suppliers. For all the reasons discussed before, the ability of competitors to supply switched services and transport to particular customers in a wire center is both necessary and sufficient to determine the LEC's degree of market power. Thus to reclassify a LEC as nondominant for a relevant market, we must again look to the proportion of customer demand that is addressable by competitors' networks and by the networks of the IXCs.

As observed in our discussion of standards for streamlined regulatory treatment, separate verification of lack of barriers to entry and presence of competitors is largely superfluous. Hence, if nondominant reclassification is contingent upon a showing of actual addressability of customers by competitors, the task of identifying legal and regulatory entry barriers imposed by state regulators would be reasonable.

A more stringent addressability standard should be required for nondominant reclassification. However, there is only a tenuous link between the additional regulatory flexibility requested -- one day filing notice and no cost support -- and a reasonable additional level of competition. Advancing the required standard for addressability from customers representing 25 percent of the LEC's access demand to 50 percent probably overstates the amount of additional protection required. The Cable Act of 1992 deemed there to be sufficient competition to completely deregulate a cable market if a competitor offered service to at least 50 percent and actually served more than 15 percent of the households in the franchise area. As we noted earlier, because carrier access service is an intermediate good sold to three large, well-informed customers, the equivalent standard for a competitive market structure for carrier access should require smaller addressability and service proportions.

### B. A Monitoring Approach to Regulatory Relief

A fundamental problem in determining the appropriate degree of regulation for a public utility facing competitive entry in some markets is that regulation and competition interact in the future while standards of competitiveness measure the past. Changes in the regulatory framework will lead to important changes in many indicators of competitiveness, and competitive outcomes in markets under a different regulatory framework would be difficult to predict. Thus the traditional approach to a regulatory transition which assesses current competition and changes the regulatory framework if necessary is unlikely to succeed.

The detailed measurement of demand and supply responsiveness and market entry in different product, geographic, and customer segment markets will be an extremely lengthy and expensive undertaking which -- at best -- will only capture the recent historical competitive situation. As recognized by the *Merger Guidelines*,

Because the specific standards set forth in the Guidelines must be applied to a broad range of possible factual circumstances, mechanical application of those standards may provide misleading answers to the economic questions raised under the antitrust laws. Moreover, information is often incomplete and the picture of competitive conditions that develops from historical evidence may provide an incomplete answer to the forward-looking inquiry of the Guidelines. (§ 0).

Because of changes in technology and the opening of previously monopolized markets to competition, it is safe to bet that future competition in most carrier access markets will not be exactly like historical competition. Indeed, competition from new entrants with old (e.g., cable) and new (e.g., wireless) technology is likely to change the face of carrier access markets forever.

As a result, a more pragmatic approach to the transitional deregulation of carrier access markets would be to substitute monitoring for prediction to some extent: institute streamlined and nondominant regulatory treatment when the simple standards described above are met and monitor the subsequent development of competition in those markets. Increased competition, the development of new services and technologies and the reduction of the regulatory burden all lead to uncertain and inherently unpredictable changes in the competitive landscape. Delaying

regulatory reform by waiting until its consequences can be predicted with great confidence would impose great costs on consumers. A far better use of society's regulatory resources would be to implement these simple tests and monitor the results.

#### VI. CONCLUSION

Economic theory provides a useful guide to the elements of a competitive analysis, but it does not supply a bright-line test that can be used in an adversarial proceeding to determine when existing competitors discipline the market price sufficiently to warrant particular reductions in regulatory restrictions. The critical feature of the market that theory points toward is the profitability of an increase in the price of the service above its competitive level. The critical empirical feature of the carrier access markets in question here is the sensitivity of demand by the three IXC customers to any differences in price where there are multiple suppliers.

These features suggest that reductions in regulatory restrictions should be keyed to geographic, product, and customer markets where IXCs can use multiple suppliers of carrier access to reach a significant fraction of their end-user customers. The proportion of demand addressable by multiple suppliers provides a reasonable, simple and feasible test to trigger streamlined regulation and ultimately regulation as a nondominant supplier.

STATE	EXISTING CITY/AREA	CP	PLANNED CITY/AREA	CP
ALABAMA				
ALADAIVIA	Anniston	Interstate FiberNet/MPX		
	Auburn	Interstate FiberNet/MPX		!
	Birmingham	Interstate FiberNet/MPX, Metrex, Privacom	Birmingham	American Comm. Svcs. (ACSI), Intelcom Group
	Gadsden	Interstate FiberNet/MPX	Huntsville	American Comm. Svcs. (ACSI)
	Homewood	Metrex	Mobile	American Comm. Svcs. (ACSI), Intermedia, KMC
	Opelika	Interstate FiberNet/MPX	Montgomery	American Comm. Svcs. (ACSI)
	Tuscaloosa	Interstate FiberNet/MPX	0 ,	,
	Pell City	Interstate Fibernet		
İ	Leeds	Interstate Fibernet		
			Tucson	ACSI,Brooks Fiber, GST Telcom
ARIZONA	Phoenix	TCG,ICG,GST Telcom,ELI, MFS		
			Nogales	GST Telecom
			Tempe	InteCom Group
			Scottsdale	MFS
1			Chandler	Teleport
			Mesa	TCI, Times Mirror - Cox
ARKANSAS	Little Rock	American Comm. Svc.	Little Rock	Brooks Fiber Properties, Metro Access
i	North Little Rock	American Comm. Svc.	North Little Rock	Brooks Fiber
CALIFORNIA	Alameda	MFS, TCG	Alameda	IntelCom (ICG)
	Altadena	MFS	Bakersfield	Brooks Fiber
	Anahiem	IntelCom Group (ICG), Linkatel/TW, MFS, TCG	Belmont	PFI
	Antioch	TCG	Bishop Ranch	TCG, MFS
	Belmont	MFS, TCG	Burlingame	MFS
	Berkeley	TCG	Carlsbad	MFS
	Beverly Hills	MFS, TCG	Chula Vista	Time Warner (TW)
	Brea	TCG	Clairmont	MFS
	Buena Park	MFS	Colton	PLI
	Burbank	IntelCom Group (ICG), MFS, MTEL, TCG	Concord	TCG
	Burlingame	TCG	Costa Mesa	MFS, TCG
	Canoga Park	IntelCom Group (ICG), Linkatel/TW, MFS, TCG	Cypress	Linkatel
	Carmichael	PFI	Danville	TCG
	Century City	Linkatel, MFS, TCG	DelMar	Time Warner (TW), Linkatel
	Citrus Heights	PFI	Dominguez Hills	Linkatel
	Colton	MFS	Dublin	TCG
	Compton	IntelCom Group (ICG), MTEL,TCG	El Cajon	Time Warner (TW)
	Culver City	MFS, TCG	, El Segundo	Linkatel
	Cupertino	MFS, TCG	El Sorbranto	TCG
	Daly City	MFS,TCG	Emeryville	TCG

STATE	EXISTING CITY/AREA	СР	PLANNED CITY/AREA	СР
CALIFORNIA	Davis	IntelCom (ICG)	Fairfield	TCG
(cont'd)	Dominguez Hills	TCG	Fashion Island	IntelCom Group (ICG)
(cont a)	East Los Angeles	TCG	Folsom	ELI, PFI
:	El Segundo	MFS, TCG	Fresno	Brooks Fiber
	Emeryville	MFS	Fullerton	MFS
;	Fair Oaks	ELI, PFI	Gardena	MFS
1	Folsom	ELI, PFI	Golden Triangle	Time Warner (TW), Linkatel
	Foster City	MFS, TCG	Hayward	MFS, Brooks Fiber
	Fremont	IntelCom Group (ICG), MFS,TCG	Hillsborough	MFS
	= = = = = = = = = = = = = = = = = = =		Huntington Park	TCG
	Garden Grove	IntelCom Group (ICG), MTEL		
	Gardena	TCG	Irvine	Linkatel, MFS, IntelCom Group (ICG)
	Glendale	MFS, TCG	Kearny Mesa	Time Warner (TW), Linkatel
	Golden Triangle	MFS, TCG	La Jolia	Time Warner (TW), Linkatel
	Hawthorne	MFS	La Puente	Pacific Lightwave
	Hayward	TCG	Larkspur	TCG
	Hillsborough	TCG	Livermore	TCG
	Hollywood	MFS, TCG	Long Beach	MFS,Teleport
!	Inglewood	MFS, TCG	Los Altos	TCG
İ	Kearny Mesa	MFS, TCG	Los Angeles	Pacific Lightwave (PLI)
1	La Jolla	MFS, TCG	Marin	TCG
	Laguna Hills	MFS	Martinez	TCG
	Los Angeles	MFS, TCG, IntelCom Group (ICG), Linkatel	. Menlo Park	Brooks Fiber
i	Los Gatos	Bay Area Transport	Millbrae	MFS
1	Menio Park	MFS	Mission Valley	Linkatel, Time Warner (TW)
	Milpitas	TCG, MFS, Brooks	Mission Viejo	TCG
	Mission Valley	TCG, MFS	Morena	MFS
	Morgan Hill	Bay Area Transport	Mountain View	TCG
	Mountain View	MFS, IntelCom (ICG)	Napa	TCG
J	Newport Beach	MFS, TCG, MTEL/ (ICG), Linkatel/TW	Newport Beach	Linkatel
	North Ridge	MFS	North Ridge	TCG
	Oakland	TCG, MFS, IntelCom Group (ICG)	Novato	TCG
	Ontario	IntelCom Group (ICG), Pacific Lightwave	Ontario	Pacific Lightwave
	Orange	MFS, IntrelCom Group (ICG)	Orange	MFS, IntelCom Group (ICG)
	Palo Alto	TCG, MFS, Brooks	Palm Springs	Pacific Lightwave
	Pasadena	MFS	Pasadena	TCG
	Pitsburg	TCG	Petaluma	IntelCom (ICG), TCG
	Rancho Cordova	PFI, ELI, IntelCom Group (ICG)	Pleasanton	TCG, MFS
	Rialto	PLI	Rancho Bernardo	Linkatel, Time Warner (TW), MFS
	Riverside	PLI, IntelCom Group (ICG)	Red Hills	IntelCom Group (ICG)
:	Rodondo Beach	MFS. TCG	Redwood City	MFS
!	Sacramento	PFI/Brooks, ELI, IntelCom Group (ICG)	Rialto	Pacific Lightwave
	San Bernadino	Pacific Lightwave	Richmond	TCG
	San Bruno	MFS, TCG	Rodeo	TCG

STATE	EXISTING CITY/AREA	СР	PLANNED CITY/AREA	CP
CALIFORNIA	San Carlos	MFS, TCG	Rodondo Beach	Linkatel
(cont'd)	San Diego	TCG, MFS, Electric Lightwave (EL)	Rohnert Park	IntelCom Group (ICG)
,	San Francisco	TCG, MFS, IntelCom Group (ICG)	Sacramento	MFS, TCG, ELI
	San Jose	TCG, MFS, Brooks	San Bernadino	Pacfic Lightwave
	San Juan Capistrano	TCG	San Carlos	PFI
	San Leandro	TCG	San Diego	Linkatel, Time Warner (TW)
1	San Mateo	MFS, TCG	San Francisco	MFS
	Santa Ana	MFS, IntelCom Group (ICG), Linkatel/TW	San Leandro	MFS
0	Santa Clara	TCG, MFS, PFI	San Rafael	MFS
İ	Santa Monica	MFS,Teleport	San Ramon	TCG
	Sherman Oaks	MFS, TCG, MTEL/IntelCom Group (ICG)	Santa Ana	TCG
	Sorento Mesa	TCG, MFS	Santa Barbara	MFS
į	Sunnyvale	MFS, TCG, Brooks	Santa Clara	MFS, TCG, PFI
1	Torrance	MFS	<ul> <li>Santa Rosa</li> </ul>	IntelCom (ICG)
İ	Van Nuys	MFS, TCG	Santiago	IntelCom (ICG)
i	Walnut Creek	IntelCom (ICG)	Sierra Mesa	MFS
	West Hollywood	TCG, MFS	Sonoma	TCG
1	West Los Ángeles	MFS,Teleport	Sorento Mesa	Time Warner (TW), Linkatel
	West Sacramento	PFI, ELI	Stockton	Brooks Fiber
	Wilshire Corridor	MFS, TCG	Torrance	Linkatel
1	Woodland Hills	MFS, TCG, MTEL/IntelCom Group (ICG)	Tustin	MFS, TCG
			Walnut Creek	TCG, MFS
COLORADO	Boulder Colorado Springs	IntelCom Group	Boulder	MFS, TCG
	Denver	IntelCom Group, TCG, MFS	Denver	MCI Metro
CONNECTICUT	Hartford	Brooks Fiber Comm, MCI Metro, MFS, TCG	Danbury	Cablevision Lightpath
			New Haven	MFS, TCG
	Meriden	TCG	New London	TCG
	West Hartford	TCG		
	Windsor	TCG		
	Windsor Locks	TCG		
	Stamford	MFS	Stamford	Cablevision LightPath, MCI Metro
į		Ì	Torrington	MCI Metro
			Entire State	SPRINT

STATE	EXISTING CITY/AREA	СР	PLANNED CITY/AREA	СР
DELAWARE	Wilmington New Castle County	MFS, MCI Metro, Eastern Telelogic MFS,ETC,LOCATE		
DIST. OF COL.	Washington <b>Me</b> t	MFS, LOCATE, MCI Metro		
FLORIDA	Boyton Beach Coral Gables Cutler Ridge Delray Beach	LOCATE TCG,Intermedia TCG LOCATE	Bradenton Ft. Lauderdale Gainesville Jacksonville	ICI,Time Warner American Comm. Svcs. Inc. (ACSI), MCI Metro/ATS Alternative Comm. Networks, Inc. (ACN) American Comm. Svcs. Inc. (ACSI)
	Fort Lauderdale Hileah Hillsboro Jacksonville	TCG TCG,Intermedia Tampa Elec. Intermedia, AlterNet, Jacksonville Teleport	Lakeland Maitland Miami Orlando	City of Lakeland MFS American Comm. Svcs. Inc. (ACSI), MFS American Comm. Svcs. Inc. (ACSI)
	Kendall Maitland Manatee Medley	TCG Intermedia Tampa Elec. TCG	Pensacola South Florida St. Petersburg Tampa	American Comm. Svcs. Inc. (ACSI) TCI, Commercial Comm. Systems, Time Warner Time Warner Time Warner
1	Melbourne Miami North Miami Opa-Locka	IntelCom Group (ICG) Intermedia, TCG, WinStar Wireless TCG TCG	Unspecified West Palm Beach	Commercial Communications Systems, Time Warner, Comcast, Jones Lightwave, Digital Media Partners, Hamerican Comm. Svcs. Inc. (ACSI)
	Orlando Sarasota St. Petersburg West Miami	Intermedia Tampa Elec. MFS, ICI, Jones Lightwave Intermedia		
	West Palm Beach Winter Park Tampa	TCG, Intermedia Intermedia MFS, ICI, Jones Lightwave, Tampa Elec.		
GEORGIA	Alpharatta Athens Atlanta	MFS, Southern Multimedia Interstate FiberNet, American Comm. Svcs. Inc. (ACSI) Southern Multimedia, WinStar Wireless MFS, Jones Lgt., MCI Metro/ATS, Interstate FiberNet American Comm. Svcs. Inc. (ACSI)	Albany Athens Atlanta Buckhead Macon	ACSI ACSI ACSI MCI Metro ACSI
	Augusta Buckhead Chamblee Columbus East Point	Jones Intercable MCI Metro, MFS, Southern Multimedia MCI Metro, Southern Multimedia Interstate FiberNet Southern Multimedia	Marietta Norcross	MCI Metro MCI Metro
	LaGrange Macon Marietta	Interstate FiberNet American Comm. Svcs. Inc. (ACSI) MFS, Southern Multimedia	•	

STATE	EXISTING CITY/AREA	СР	PLANNED CITY/AREA	СР
GEORGIA	Newnan	Interstate FiberNet	- CHARLE	ن پر پر ای <u>ند پیشند</u> در در این اور اور این این این این این این این این این این
1	Norcross	MFS, Southern Multimedia		
İ	Roswell	MFS		
	Savannah	PalmettoNet		
į	Tucker	MFS, Southern Multimedia		i -
	, a.d., <u>2</u> ,	on o, osaaloin waxinogia		
HAWAII	Honolulu	Digital Transport Inc. (DTI), Oceanic,	Hawaii Kauai	Time-Warner GST
			Lanai	GST
!		İ	Maui	GST
			Molokai	GST
ĺ	Oahu	Digital Transport Inc. (DTI), Oceanic	;	
IDAHO			Boise	Phoenix Fiberlink
i				
ILLINOIS	Chicago (Metro)	MFS, Teleport, MCI Metro		
1	Dekalb	Norlight	1	
	Wheaton	MCI	i	
INDIANA	Indianapolis	MCI (Trial only)		$F_{ij}$
	Fort Wayne	US Signal		
	Terre Haute	CNI		
IOWA	Des Moines	McLeod		
-	Cedar Rapids	McLeod	1	T.
KANSAS	Andover	Multimedia Hyperion, KINNET		
	Bonner Springs	KINNET		
j	Cedar Vale	KINNET	l as	
	Chautauqua	KINNET		
	Cherryvale	KINNET		
	Colby	KINNET		
	Dearing	KINNET		
	Dodge City	KINNET		
	Eastborough	KINNET		
!	Edwardsville	KINNET		
	El Dorado	KINNET		
İ	Emporia	KINNET		
	Fairway	Kansas City Fibernet	Ì	i
ļ	Garden City	KINNET	•	
Ì			j	
	Hays	KINNET		

STATE	EXISTING CITY/AREA	СР	PLANNED CITY/AREA	СР
KANSAS	Hutchinson	KINNET		
(cont'd)	lo <b>ia</b>	KINNET	Î	
İ	Kansas City	KINNET, Kansas City Fibernet	Kansas City	MFS
	Kechl	Multimedia Hyperion		
	Kinsley	KINNET	İ	
:	La Crosse	KINNET		
	Lansing	Kansas City Fibernet		•
	Latimer	KINNET		
	Lawrence	KINNET		
	Leavenworth	Kansas City Fibernet		
	Leawood	Kansas City Fibernet		
	Lenexa	Kansas City Fibernet, KINNET		
	Liberal	KINNET	: •	
	Medicine Lodge	KINNET		
	Merriam	Kansas City Fibernet		
	Mission	Kansas City Fibernet		
	Mission Woods	Kansas City Fibernet		:
!	Ottawa	KINNET	**	
ı	Overland Park	Kansas City Fibernet, KINNET	:	
	Paola	KINNET	•	
	Park City	Multimedia Hyperion		
	Parsons	KINNET	1	The state of the s
1	Phillipsburg	KINNET		
	Plainville	KINNET		
	Pratt	KINNET	į	i
1	Prairie Village	Kansas City Fibernet		
	Protection	KINNET	Trans.	
	Roeland Park	Kansas City Fibernet	į	· · · · · · · · · · · · · · · · · · ·
j	Salina	KINNET		
	Shawnee	Kansas City Fibernet, KINNET		
1	Smith Center	KINNET		
j	South Hutchinson	KINNET		
	Stafford	KINNET		
	Sublette	KINNET		
į	Topeka	KINNET		
	Wellington	KINNET	1	
	Westwood	Kansas City Fibernet		
	Wichita	Multimedia Hyperion, KINNET		
1	Winfield	KINNET	Í	
			į	
į			<b>)</b> •	
!				

STATE	EXISTING CITY/AREA	СР	PLANNED CITY/AREA	СР
KENTUCKY	Calvert City Castelberry Georgetown Lexington Louisville Madisonville Paducah Princeton	Kentucky Data Link Kentucky Data Link LOCATE ASCI ACSI,Americali,ICG Kentucky Data Link LOCATE, Kentucky Data Link Kentucky Data Link	Louisville	Louisville Lightwave
LOUISANA	New Orleans	Two-Way Communications, LOCATE, Cox FiberNet	Baton Rouge Lafayette Monroe New Orleans Shreveport Unspecified	American Comm. Svcs. (ACSI) American Comm. Svcs. (ACSI) Interstate FiberNet ACSI, MCI Metro/ATS, LA FiberNet LeveeComm., MFS American Comm. Svcs. (ACSI), Interstate Fibernet Paramount Wireless
MAINE			Southern Area	TCG, Time Warner
MARYLAND	Baltimore Baltimore City Baltimore County Gloucester County Mercer County Montgomery County Prince George's County	MFS, Balt. Gas & Elec., LOCATE, MCI Metro, TCG MFS,BG&E,LOCATE,MCI METRO,TCG MFS,BG&E,LOCATE,MCI METRO,TCG Eastern TeleLogic, Teleport Eastern TeleLogic, Teleport MFS,LOCATE,MCI METRO MFS,LOCATE,MCI METRO		
MASSACHUSETTS	Acton Andover Bedford Belmont Beverly Billerica Boston Boxboro Brookline Brockington Burlington Cambridge Canton Charlestown	MFS MFS, TCG MFS MFS MFS MFS MFS MFS, TCG, LOCATE, MCI Metro MFS MFS TCG MFS, TCG MFS, TCG MFS, TCG MFS, TCG MFS, TCG MFS, TCG MFS, TCG MFS	Boston  Braintree Chestnut Hill Dorchester Gloucester Lanesboro Marlboro Newburyport Tewksbury	Sprint Telecommunications Venture (STV) Cablevision MFS MFS MFS MFS MFS MFS MFS MFS MFS MFS

STATE	EXISTING CITY/AREA	CP	PLANNED CITY/AREA	СР
MASSACHUSETTS	Chelmsford	MFS		The state of the s
(cont'd)	Concord	MFS		
	Danvers	MFS		
	Dedham	TCG		
	Easton	TCG	!	
	Foxboro	MFS		
	Framingham	MFS, TCG		
	Hudson	MFS		
	Hyannis	MFS		
1	Kingston	MFS		
	Lawrence	TCG		
1	Lexington	MFS		
	Lincoln	MFS		
	Littleton	MFS		
	Lowell	MFS		
	Malden	TCG		
	Marblehead	MFS		
	Mashpee	MFS		
•	Medford	MFS, TCG		
	Medway	MFS		
	Natick	TCG		
1	Needham	MFS, TCG		
1	Newton	MFS, TCG		
	North Billerica	MFS		
	North Chelmsford	MFS		
	North Reading	TCG		
	Norwell	MFS	į	
	Peabody	MFS		
	Quincy	MFS, TCG		
;	Reading	MFS, TCG		
	Revere	MFS		
	Rockland	MFS		
	Somerville	MFS, TCG		
1	Springfield	Brooks		
	Taunton	MFS		
	Wakefield	MFS		
	Waltham	MFS, TCG		
1	Watertown	MFS		
	Wellsley	MFS		
	Westboro	MFS		
	Weston	MFS	i i	
	Wilmington	MFS, TCG		
	Woburn	MFS, TCG		

STATE	EXISTING CITY/AREA	СР	PLANNED CITY/AREA	<b>CP</b>
MICHIGAN	Detroit	MFS, Teleport, MCI		
i k	Grand Rapids	US Signal,AT&T		
	Holland	US Signal		
	Muskegon Traverse City	US Signal US Signal	•	
	Zeeland	US Signal		
MINNESOTA	Minneapolis-St. Paul	MFS, Paragon Cable/FibrCom		
MISSISSIPPI	Jackson	Access Transmission Svcs.	Biloxi	American Comm. Svcs. (ACSI)
			Gulfport Hattiesburg	Interstate FiberNet Interstate FiberNet
MISSOURI	Belton	Kansas City Fibernet		
ii	Berkeley	MFS	'	
!	Brentwood	MFS	!	
	Bridgeton	MFS	!	
	Chesterfield	MFS,TCG	4	
	Clayton	MFS,TCG		
-	Cool Valley	MFS	:	
!	Creve Coeur	MFS.TCG	•	
	Edmundson	MFS		
ì	Gladstone	Kansas City fibernet	4	
	Grandview	Kansas City fibernet	! s	
	Hanley Hills	MFS	i i	
!	Hazelwood	MFS	1	
ļ	Independence	Kansas City fibernet	1	
Į	Kansas City	Kansas City fibernet	Kansas City	MFS
j	Kinloch	MFS	,	
	Ladue	MFS,TCG		
	Lee's Summit	Kansas City fibernet		
	Liberty	Kansas City fibernet		
	Maryland Heights	MFS, TCG		!
i į	Normandy	MFS	:	
! !	North Kansas City	Kansas City fibernet	. 1	
	Oaks	Kansas City fibernet		!
	Oakview	Kansas City fibernet		
	Oakwood Park	Kansas City fibernet		
	Oakwood	Kansas City fibernet		
	Olivette	MFS, TCG	,	
	Overland	MFS, TCG		

STATE	EXISTING CITY/AREA	СР	PLANNED CITY/AREA	СР
MISSOURI (cont'd)	Pagedale Parkville Pleasant Valley Raytown Richmond Heights St. Louis St. Ann University Park Vinita Park Vinita Terrace Wellston Westwood	MFS Kansas City fibernet Kansas City fibernet Kansas City fibernet MFS, TCG MFS, TCG MFS MFS MFS MFS MFS MFS MFS MFS MFS MFS	St. Louis Springfield	Digital Teleport, Intermedia Comm., MCI Metro, SP Te Springfield FiberNet
MONTANA			!*	
NEBRASKA	Omaha	TCG	!	
NEVADA	Las Vegas	City Signal	Reno	Phoenix Fiber
NEW HAMPSHIRE	Portsmouth	TCG	Nashua Portsmouth Southern Area	MFS TCG MFS
NEW JERSEY	Bergen County Burlington County Camden County Essex County Hudson County Middlesex County Morris County Passaic County Somerset County Union County	MFS, MH Lightnet, Teleport Eastern TeleLogic ,Teleport Eastern TeleLogic ,Teleport MFS, MH Lightnet, Teleport		

STATE	EXISTING CITY/AREA	СР	PLANNED CITY/AREA	CP
NEW MEXICO			Albuquerque	American Comm. Svc., Brooks, GST Telecom of NM Phoenix FiberLink of NM
			Las Cruces	GST Telecom of NM
			Farmington	GST Telecom of NM
1			Sante Fe	GST Telecom of NM
NEW YORK	Albany	ACC, MFS, Hyperion	Albany	STV, Time Warner, Southwestern Bell Mobile (SBMS
	Amagansett	MFS, Hyperion, LOCATE	ŕ	
1	Amherst	MFS, Hyperion, LOCATE		
	Amsterdam	ACC, MFS, Hyperion		
ļ	Armonk	MFS, TCG, NNI		
	Binghamton	Hyperion	Binghamton	Time Warner
	Blasdell	MFS, Hyperion, LOCATE	,	Time Warrer
	Buffalo	MFS, Hyperion, LOCATE	Buffalo	STV, SBMS
	Camillus	ACC, Frontier, Hyperion, Time Warner	Dunaio	ST T, GBING
	Cheektowaga	MFS, Hyperion, LOCATE		
	Cicero	ACC, Frontier, Hyperion, Time Warner		
	Clay DeWitt	ACC, Frontier, Hyperion, Time Warner	!	
	Depew	MFS, Hyperion, LOCATE		
	East Hampton	MFS, Hyperion, LOCATE		
1	East Islip	MFS, Hyperion, LOCATE		
1	East Syracuse	ACC, Frontier, Hyperion, Time Warner	1	
	Fairmount	ACC, Frontier, Hyperion, Time Warner		The state of the s
	Fayetteville	ACC, Frontier, Hyperion, Time Warner		
	Garden City	MFS, Hyperion, LOCATE		
	Geddes	ACC, Frontier, Hyperion, Time Warner		
	Great Neck	MFS, Hyperion, LOCATE	1	
	Harris Hill			
		MFS, Hyperion, LOCATE		
	Hauppage	MFS, Hyperion, LOCATE		
	Hempstead	MFS, Hyperion, LOCATE		:
	Huntington	MFS, Hyperion, LOCATE	1	
	Jericho	MFS, Hyperion, LOCATE	I	
	Kenmore	MFS, Hyperion, LOCATE		
	Lakawana	MFS, Hyperion, LOCATE	ĺ	
	Lake Ronkonkoma	MFS, Hyperion, LOCATE		
	Lake Success	MFS, Hyperion, LOCATE	of the second se	i
1	Lancaster	MFS, Hyperion, LOCATE	<i>I</i> 	
	Liverpool	ACC, Frontier, Hyperion, Time Warner		
	Long Island	TCG, Cablevision, LOCATE, MFS	Ithaca	Time Warner
	Lyncourt	ACC, Frontier, Hyperion, Time Warner	1.	
	Lyndon	ACC, Frontier, Hyperion, Time Warner		
	Lysander	ACC, Frontier, Hyperion, Time Warner	1	

NEW YORK (Contd)  Manilus Acc, Frontier, Hyperion, Time Warner Acc, Frostier, Hyperion, Time Warner Acc, Frostier, Hyperion, Time Warner Acc, Frostier, Hyperion, Time Warner Acc, Frostier, Hyperion, Time Warner New Hyde Park New Hochelle NYC, (Metro Area) North Syracuse Onordoga Reservation Planview Purchase Rocitesists Sign Hebrit Rocitesi	STATE	EXISTING CITY/AREA	СР	PLANNED CITY/AREA	СР
Matydale Monands ACC, Frontier, Hyperion, Time Warner Monands ACC, WFS, Hyperion ACC, Frontier, Hyperion, Time Warner New Hode Park New Rochelle MFS, TCG, NNI NY C, (Metro Area) MFS, TCG, NNI NY C, (Metro Area) MFS, TCG, NNI NY C, (Metro Area) MFS, TCG, NNI NY C, (Metro Area) MFS, TCG, NNI NY C, (Metro Area) MFS, TCG, LCCATE, Cablevision, MCI, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, LOCATE NFS, TCG, LCCATE, Cablevision, MCI, Time Warner ACC, Frontier, Hyperion, LOCATE NFS, TCG, NNI ACC, ATAT, Time Warner, Fibernet of Rochester (MFS) MFS, TCG, NNI ACC, ATAT, Time Warner, Fibernet of Rochester (MFS) MFS, TCG, NNI ACC, ATAT, Time Warner, Fibernet of Rochester (MFS) MFS, TCG, NNI ACC, Frontier, Hyperion, LOCATE NFS, Hyperion, Hyperion, Hyperion	NEW YORK	Mamaroneck	MFS, TCG, NNI	Ţ	The second secon
Menands Minoa ACC, Frontier, Hyperion, Time Warner New Hyde Park MFS, Hyperion, LOCATE Acabievision, MCI, Time Warner New Rochelle NFS, TCG, NNI North Syracuse ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, ATAT. Time Warner, Fibernet of Rochester(MFS) Roslyn Heights ACC, ATAT. Time Warner, Fibernet of Rochester(MFS) Roslyn Heights ACC, ATAT. Time Warner, Fibernet of Rochester(MFS) Roslyn Heights ACC, ATAT. Time Warner, Fibernet of Rochester(MFS) Roslyn Heights ACC, ATAT. Time Warner, Fibernet of Rochester (MFS) Rochester ACC, ATAT. Time Warner, Fibernet of Rochester(MFS) Rochester ACC, Frontier, Hyperion, LOCATE  Soloan MFS, Hyperion, LOCATE  Soloan MFS, Hyperion, LOCATE  Torn Line Uniondale MFS, Hyperion, LOCATE  Uniondale MFS, Hyperion, LOCATE  Wast Steam ACC, Frontier, Hyperion, LOCATE  Wast Steam ACC, Frontier, Hyperion, LOCATE  Wast Steam ACC, Frontier, Hyperion, LOCATE  Wast Steam ACC, Frontier, Hyperion, LOCATE  Wast Steam ACC, Frontier, Hyperion, Time Warner  Wast Sienca MFS, TCG, NNI  Williamsville MFS, TCG, NNI  NFS, TCG, NNI  NFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, Time Warner  ACC, Frontier, Hyperion, Time Warner  MFS, Hyperion, Time Warner  MFS, Hyperion, Time Warner  ACC, Fronti	(Cont'd)	Manilus	ACC, Frontier, Hyperion, Time Warner		
Menands Minoa ACC, Frontier, Hyperion, Time Warner New Hyde Park MFS, Hyperion, LOCATE Acabievision, MCI, Time Warner New Rochelle NFS, TCG, NNI North Syracuse ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, ATAT. Time Warner, Fibernet of Rochester(MFS) Roslyn Heights ACC, ATAT. Time Warner, Fibernet of Rochester(MFS) Roslyn Heights ACC, ATAT. Time Warner, Fibernet of Rochester(MFS) Roslyn Heights ACC, ATAT. Time Warner, Fibernet of Rochester(MFS) Roslyn Heights ACC, ATAT. Time Warner, Fibernet of Rochester (MFS) Rochester ACC, ATAT. Time Warner, Fibernet of Rochester(MFS) Rochester ACC, Frontier, Hyperion, LOCATE  Soloan MFS, Hyperion, LOCATE  Soloan MFS, Hyperion, LOCATE  Torn Line Uniondale MFS, Hyperion, LOCATE  Uniondale MFS, Hyperion, LOCATE  Wast Steam ACC, Frontier, Hyperion, LOCATE  Wast Steam ACC, Frontier, Hyperion, LOCATE  Wast Steam ACC, Frontier, Hyperion, LOCATE  Wast Steam ACC, Frontier, Hyperion, LOCATE  Wast Steam ACC, Frontier, Hyperion, Time Warner  Wast Sienca MFS, TCG, NNI  Williamsville MFS, TCG, NNI  NFS, TCG, NNI  NFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, LOCATE  Wast MFS, TCG, NNI  MFS, Hyperion, Time Warner  ACC, Frontier, Hyperion, Time Warner  MFS, Hyperion, Time Warner  MFS, Hyperion, Time Warner  ACC, Fronti			ACC, Frontier, Hyperion, Time Warner		
New Hyde Park New Rochelle New Schelle New Schelle New Schelle New Schelle New Schelle New Schelle New Schelle New Schelle New Schelle New Schelle New Schelle New Schelle New Schelle New Schelle New Schelle New Schelle New Schelle New Schelle New Schelle New York (Metro) New York (Metro) New York (Metro) STV New York (Metr		Menands			
New Rochelle N.Y.C.(Metro Area) N.Y.C.(Metro Area) N.Y.C.(Metro Area) North Syracuse Onondaga Reservation Planview Purchase Roshyn Heights Sag Harbor Schenectady Schenectady Sovar		Minoa	ACC, Frontier, Hyperion, Time Warner		
N Y. C. (Metro Area) North Syracuse North Syracuse Onondaga Reservation Planview Purchase Purchase Rochester Roslyn Heights Sag Harbor Schenectady Schenectady Solvan Solv		New Hyde Park	MFS, Hyperion, LOCATE	!	
North Syracuse Onondaga Reservation Planview Purchase Hyperion, LOCATE Purchase Hyperion, LOCATE Roslyn Heights Sag Harbor Schenectady Schenectady Soloan His, Hyperion, LOCATE Soloan His, Hyperion, LOCATE Soloan His, Hyperion, LOCATE Soloan His, Hyperion, LOCATE Soloan His, Hyperion, LOCATE Soloan His, Hyperion, LOCATE Soloan His, Hyperion, LOCATE Soloan His, Hyperion, LOCATE Soloan His, Hyperion, LOCATE Soloan His, Hyperion, LOCATE Soloan His, Hyperion, LOCATE Soloan His, Hyperion, LOCATE Soloan His, Hyperion, LOCATE Soloan His, Hyperion, LOCATE Town Line Uniondale His, Hyperion, LOCATE Valhalla His, Hyperion, LOCATE Valhalla His, Hyperion, LOCATE Valhalla His, TCG, NNI Valley Stream Van Buren Van Buren Van Buren West Seneca Westchester Westchester Westchester Winite Plains Mis, TCG, Nil Williamsville His, TCG, Nil Williamsville His, TCG, Nil Williamsville His, TCG, Nil Williamsville His, Hyperion, LOCATE Townkers His Hisperion, LOCATE Hisperion, LOCATE Asheville Charlotte Charlotte Charlotte Charlotte Charlotte Durham Research Triangle Raleigh Raleigh FiberSouth, line Unitermedia, FiberSouth, line. Hish Point Intersates FiberNet Intersates FiberN		New Rochelle	MFS, TCG, NNI		
North Syracuse Onondaga Reservation Planview Plurchase MFS, Hyperion, LOCATE Poster Roslyn Heights MFS, Hyperion, LOCATE Sag Harbor Schenectady Solan MFS, Hyperion, LOCATE Solan MFS, Hyperion, LOCATE Soloan MFS, Hyperion, LOCATE Soloan MFS, Hyperion, LOCATE Soloan MFS, Hyperion, LOCATE Soloan MFS, Hyperion, LOCATE Soloan MFS, Hyperion, LOCATE Soloan MFS, Hyperion, LOCATE Soloan MFS, Hyperion, LOCATE Soloan MFS, Hyperion, LOCATE Soloan MFS, Hyperion, LOCATE Soloan MFS, Hyperion, LOCATE Soloan MFS, Hyperion, LOCATE Soloan MFS, Hyperion, LOCATE Soloan MFS, Hyperion, LOCATE Town Line Uniondale MFS, Hyperion, LOCATE Valhatla MFS, Hyperion, LOCATE Valhatla MFS, TCG, NNI Valley Stream Van Buren Van Buren Van Buren Van Buren West Seneca Westvale Westvale Westvale Westvale Westvale Westvale Westvale Westvale Westvale Westvale Westvale Westvale Westvale Westvale Westvale Westvale Westvale ACC, Frontier, Hyperion, Time Warner MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Westvale Westvale Westvale ACC, Frontier, Hyperion, Time Warner MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Acc, Frontier, Hyperion, Time Warner MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Acc, Frontier, Hyperion, Time Warner MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Acc, Frontier, Hyperion, Time Warner MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Acc, Frontier, Hyperion, Time Warner MFS, TCG, NNI MFS, Hyperion, LOCATE Acc, Frontier, Hyperion, Time Warner MFS, TCG, NNI MFS, Hyperion, LOCATE Acc, Frontier, Hyperion, Time Warner MFS, TCG, NNI MFS, Hyperion, LOCATE Acc, Frontier, Hyperion, Time Warner MFS, TCG, NNI Acc, Frontier, Hyperion, Time Warner MFS, TCG, NNI Acc, Frontier, Hyperion, Time Warner MFS, TCG, NNI Acc, Frontier, Hyperion, Warner MFS, TCG, NNI Acc, Frontier, Hyperion, Warner MFS, TCG, NNI Acc, Frontier, Hyperion, Warner MFS, TCG, NNI Acc, Frontier, Hyperion, Warner MFS, TCG, NNI Acc, Frontier, Hyperion, Warner MFS, TCG, NNI Acc, Frontier, Hyperion, Warner Acc, Frontier, Hyperion, Warner MFS, TCG, NNI Acc, Frontie		N.Y.C.(Metro Area)	MFS, TCG, LOCATE, Cablevision, MCI, Time Warner	New York (Metro)	STV
Onondaga Reservation Planview Purchase Purchase MFS, Hyperion, LOCATE Purchase MFS, TOG, NNI Rochester ACC, ATAT. Time Warner, Fibernet of Rochester(MFS) Rosyn Helights Sag Harbor Schenectady ACC, MFS, Hyperion, LOCATE Schenectady Seaford MFS, Hyperion, LOCATE Solvan Solvan ACC, Frontier, Hyperion, Time Warner Tarrytown Tonawanda Town Line MFS, Hyperion, LOCATE Uniondale Valhalla MFS, Hyperion, LOCATE West Seneca MFS, Hyperion, LOCATE Uniondale Valhalla MFS, Hyperion, LOCATE West Seneca MFS, Hyperion, LOCATE We		North Syracuse		, , , , , , , , , , , , , , , , , , ,	
Plarview Purchase MFS, Hyperion, LOCATE Purchase Rochester MFS TCG, NNI Roshyn Heights MFS, Hyperion, LOCATE Roshyn Heights MFS, Hyperion, LOCATE Sag Harbor Schenectady ACC, MFS, Hyperion Seaford MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Solvay ACC, Frontier, Hyperion, Time Warner Syracuse ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, LOCATE Town Line MFS, Hyperion, LOCATE Valhalla MFS, Hyperion, LOCATE Valhalla MFS, Hyperion, LOCATE Valhalla MFS, Hyperion, LOCATE Westchester Mest Seneca MFS, Hyperion, Time Warner West Seneca MFS, Hyperion, LOCATE Westchester MFS, Hyperion, LOCATE Westchester MFS, TCG, NNI Williamsville White Plains MFS, Hyperion, LOCATE White Plains MFS, Hyperion, LOCATE Town Line MFS, Hyperion, LOCATE Westchester MFS, Hyperion, LOCATE Westchester MFS, TCG, NNI Williamsville Yonkers MFS CG, Frontier, Hyperion, LOCATE TCG, Westwale White Plains MFS, TCG, NNI Williamsville Yonkers MFS TCG, NNI Research Triangle		Onondaga Reservation		1	
Purchase Rochester Rochester Rochester Roslyn Heights Sag Harbor Schenectady Seaford Solvan S		Planview			!
Roshyn Heights Sag Harbor MFS, Hyperion, LOCATE Schenectady Seaford MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE Tarrytown MFS, TGG, NNI Tonawanda MFS, Hyperion, LOCATE Uniondale MFS, Hyperion, LOCATE Valhalla MFS, TOG, NNI Valley Stream Van Buren West Seneca MFS, Hyperion, LOCATE Westvale MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE Westvale MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE MFS, TCG Mestvale MFS, Hyperion, LOCATE MFS, TCG Mestvale MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE MFS, TCG, NNI Milliamsville MFS, Hyperion, LOCATE MFS, Hy		Purchase			
Roshyn Heights Sag Harbor MFS, Hyperion, LOCATE Schenectady ACC, MFS, Hyperion Seaford MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE Tarrytown Tonawanda MFS, Hyperion, LOCATE WFS, Hyperion, LOCATE Uniondale MFS, Hyperion, LOCATE Valinatia MFS, TOG, NNI Valley Stream Van Buren West Seneca MFS, Hyperion, LOCATE Westvale MFS, Hyperion, LOCATE Westvale MFS, Hyperion, LOCATE MFS, Hyperion, LOCATE Westvale MFS, Hyperion, LOCATE MFS, Hyperion, LOC	4	Rochester	ACC, AT&T, Time Warner, Fibernet of Rochester(MFS)		
Sag Harbor Schenectady ACC, MFS, Hyperion, LOCATE ACC, MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE Sloan MFS, Hyperion, LOCATE ACC, Frontier, Hyperion, Time Warner Syracuse ACC, Frontier, Hyperion, Time Warner Syracuse ACC, Frontier, Hyperion, Time Warner Syracuse ACC, Frontier, Hyperion, LOCATE Tarrytown MFS, TCG, NNI Tonawanda MFS, Hyperion, LOCATE Town Line MFS, Hyperion, LOCATE Uniondale MFS, Hyperion, LOCATE Uniondale MFS, Hyperion, LOCATE Valhalia MFS, TCG, NNI Valley Stream ACC, Frontier, Hyperion, Time Warner West Seneca MFS, Hyperion, LOCATE Westchester MFS, TCG Westvale ACC, Frontier, Hyperion, Time Warner West Seneca MFS, Hyperion, LOCATE White Plains MFS, TCG, NNI Williamsville MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Tontier, Hyperion, LOCATE Asheville Acc, Frontier, Hyperion, Time Warner Charlotte Durham FiberSouth, Time Warner Charlotte Greensboro InteleCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet Intermedia, FiberSouth, Inc. High Point Interstate FiberNet InteleCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet InteleCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet InteleCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet InteleCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet InteleCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet InteleCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet InteleCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet InteleCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet InteleCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet InteleCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet InteleCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet InteleCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet InteleCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet InteleCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet InteleCom Group (ICG), DukeNet Comm. Inc. (DCI)		Roslyn Heights	MFS, Hyperion, LOCATE	Rochester	iUS West, SBMS
Seaford MFS, Hyperion, LOCATE Sloan MFS, Hyperion, Time Warner Syracuse ACC, Frontier, Hyperion, Time Warner Syracuse ACC, Frontier, Hyperion, Time Warner Tarrytown MFS, TCG, NNI Tonawanda MFS, Hyperion, LOCATE Town Line MFS, Hyperion, LOCATE Uniondale MFS, Hyperion, LOCATE Valhalla MFS, TCG, NNI Valley Stream MFS, Hyperion, LOCATE West Seneca MFS, Hyperion, LOCATE West Seneca MFS, Hyperion, LOCATE West Seneca MFS, Hyperion, LOCATE West Seneca MFS, Hyperion, Time Warner West Seneca MFS, TCG Westvale MFS, TCG Westvale White Plains MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Yonkers MFS NORTH CAROLINA  Charlotte Durham FiberSouth, Time Warner Research Triangle Research Triangle Raleigh FiberNet FiberNet Raleigh FiberNet FiberNet Raleigh FiberNet FiberNet Raleigh FiberNet FiberNet  Syracuse SBMS  SBMS  SBMS  ASHA  ACC, Frontier, Hyperion, Time Warner Syracuse Spans  Acc, Frontier, Hyperion, Time Warner Acc, Frontier, Hyperion, Time Warner Asheville American Comm. Svcs. (ACSI), Intersate FiberNet American Comm. Svcs. (ACSI), Intersate FiberNet American Comm. Svcs. (ACSI), Intersate FiberNet Intermedia, FiberSouth, Inc.  MFS, Hyperion, LOCATE Asheville American Comm. Svcs. (ACSI), Intersate FiberNet IntelCom Group (ICG), DukeNet Comm. Inc. (DCI) Intersate FiberNet	1	Sag Harbor	MFS, Hyperion, LOCATE		1
Seaford MFS, Hyperion, LOCATE Sloan MFS, Hyperion, Time Warner Syracuse ACC, Frontier, Hyperion, Time Warner Syracuse ACC, Frontier, Hyperion, Time Warner Tarrytown MFS, TCG, NNI Tonawanda MFS, Hyperion, LOCATE Town Line MFS, Hyperion, LOCATE Uniondale MFS, Hyperion, LOCATE Valhalla MFS, TCG, NNI Valley Stream MFS, Hyperion, LOCATE West Seneca MFS, Hyperion, LOCATE West Seneca MFS, Hyperion, LOCATE West Seneca MFS, Hyperion, LOCATE White Plains MFS, TCG Westvale ACC, Frontier, Hyperion, Time Warner White Plains MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Town Line MFS, Hyperion, LOCATE White Plains MFS, TCG, NNI Williamsville MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Town Line MFS, TCG, NNI Williamsville MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Town Line MFS Tomation MFS, Hyperion, Time Warner The Search Triangle FiberNet Intermedia, FiberSouth, Inc.  NORTH CAROLINA Research Triangle FiberNet Intermedia, FiberSouth, Inc.  NORTH CAROLINA Research Triangle FiberNet Intermedia, FiberSouth, Inc.  NORTH CAROLINA Research Triangle FiberNet Intermedia, FiberSouth, Inc.	1	Schenectady	ACC, MFS, Hyperion	1	
Solvay Syracuse ACC, Frontier, Hyperion, Time Warner Syracuse ACC, Frontier, Hyperion, Time Warner Tarrytown MFS, TCG, NNI Tonawanda MFS, Hyperion, LOCATE Town Line MFS, Hyperion, LOCATE Uniondale MFS, Hyperion, LOCATE Valhalla MFS, TCG, NNI Valley Stream MFS, Hyperion, LOCATE Van Buren ACC, Frontier, Hyperion, Time Warner West Seneca MFS, Hyperion, LOCATE Westvale MFS, TCG Westvale ACC, Frontier, Hyperion, Time Warner White Plains MFS, TCG Williamsville MFS, TCG, NNI Williamsville MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Town Locate West Seneca MFS, TCG Westvale ACC, Frontier, Hyperion, Time Warner White Plains MFS, TCG Westvale ACC, Frontier, Hyperion, Time Warner MFS, TCG Westvale ACC, Frontier, Hyperion, Time Warner MFS, Hyperion, LOCATE Westrale ACC, Frontier, Hyperion, Time Warner MFS, Hyperion, LOCATE Westrale ACC, Frontier, Hyperion, Time Warner MFS, Hyperion, LOCATE Westrale ACC, Frontier, Hyperion, Time Warner MFS, Hyperion, LOCATE Westrale ACC, Frontier, Hyperion, Time Warner MFS, Hyperion, LOCATE Asheville American Comm. Svcs. (ACSI), Intersate FiberNet American Comm. Svcs. (ACSI), Intersate FiberNet Intersate Fibe		Seaford			
Syracuse Tarrytown MFS, TCG, NNI Tonawanda MFS, Hyperion, LOCATE Town Line Uniondale Valleus Stream Van Buren West Seneca Westchester Westchester White Plains White Plains White Plains Williamsville Yonkers  NORTH CAROLINA  Charlotte Durham Research Triangle Raleigh  ACC, Frontier, Hyperion, Time Warner MFS, Hyperion, LOCATE Warner MFS, Hyperion, LOCATE Warner MFS, Hyperion, LOCATE Warner MFS, Hyperion, LOCATE Warner MFS, Hyperion, LOCATE Warner MFS, TCG, NNI Williamsville Yonkers  Asheville Charlotte Greensboro Greensboro IntelCom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet Intermedia, FiberSouth, Inc.		Sloan	MFS, Hyperion, LOCATE		
Tarrytown MFS, TCG, NNI Tonawanda MFS, Hyperion, LOCATE Town Line MFS, Hyperion, LOCATE Uniondale MFS, Hyperion, LOCATE Valhalla MFS, TCG, NNI Valley Stream MFS, Hyperion, LOCATE Van Buren MFS, Hyperion, LOCATE Vest Seneca MFS, Hyperion, LOCATE West Seneca MFS, Hyperion, LOCATE West MFS, TCG Westvale ACC, Frontier, Hyperion, Time Warner White Plains MFS, TCG, NNI Williamsville MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Yonkers MFS  NORTH CAROLINA  Charlotte ICG, Charlotte Axs, LOCATE Burham Fiber South, Time Warner Research Triangle Fiber Net/ICI, Time Warner Research Triangle Raleigh  Raleigh  AMES, TCG, NNI  MFS, TCG, NNI  MFS, TCG, NNI  MFS, TCG, NNI  MFS, TCG  MET Warner  ASheville American Comm. Svcs. (ACSI), Intersate FiberNet  American Comm. Svcs. (ACSI), Intersate FiberNet  Greensboro Greensboro IntelCom Group (ICG), DukeNet Comm. Inc. (DCI) Intersate FiberNet		Solvay	ACC, Frontier, Hyperion, Time Warner	1	
Tarrytown MFS, TCG, NNI Tonawanda MFS, Hyperion, LOCATE Town Line MFS, Hyperion, LOCATE Uniondale MFS, Hyperion, LOCATE Uniondale MFS, Hyperion, LOCATE Valhalla MFS, TCG, NNI Valley Stream MFS, Hyperion, LOCATE Van Buren ACC, Frontier, Hyperion, Time Warner West Seneca MFS, Hyperion, LOCATE Westchester MFS, TCG Westvale ACC, Frontier, Hyperion, Time Warner White Plains MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Yonkers MFS  NORTH CAROLINA Charlotte ICG,Charlotte Axs,LOCATE Durham FiberSouth,Time Warner Research Triangle FiberNet/ICI,Time Warner Research Triangle FiberNet/ICI,Time Warner Relegigh Intermedia, FiberSouth, Inc. High Point Interstate FiberNet Intercom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet Intercom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet Intercom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet Intercom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet Intercom Group (ICG), DukeNet Comm. Inc. (DCI) Interstate FiberNet Intercom Group (ICG), DukeNet Comm. Inc. (DCI) Intercstate FiberNet Intercom Group (ICG), DukeNet Comm. Inc. (DCI) Intercstate FiberNet Intercom Group (ICG), DukeNet Comm. Inc. (DCI) Intercstate FiberNet Intercom Group (ICG), DukeNet Comm. Inc. (DCI) Intercstate FiberNet Intercom Group (ICG), DukeNet Comm. Inc. (DCI) Intercstate FiberNet Intercom Group (ICG), DukeNet Comm. Inc. (DCI) Intercstate FiberNet Intercom Group (ICG), DukeNet Comm. Inc. (DCI)	1	Syracuse	ACC, Frontier, Hyperion, Time Warner	Syracuse	SBMS
Town Line MFS, Hyperion, LOCATE Uniondale MFS, Hyperion, LOCATE Valhalla MFS, TCG, NNI Valley Stream MFS, Hyperion, LOCATE Van Buren ACC, Frontier, Hyperion, Time Warner West Seneca MFS, Hyperion, LOCATE Westchester MFS, TCG Westvale ACC, Frontier, Hyperion, Time Warner West vale White Plains MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Yonkers MFS  NORTH CAROLINA  Charlotte ICG, Charlotte Axs, LOCATE Durham FiberSouth, Time Warner Research Triangle Research Triangle Raleigh Intermedia, FiberSouth, Inc.  Town Line MFS, Hyperion, LOCATE Asheville American Comm. Svcs. (ACSI), Intersate FiberNet American Comm. Svcs. (ACSI), Intersate FiberNet Intermedia, FiberSouth, Inc.  High Point Interstate FiberNet		Tarrytown			- <u></u>
Uniondale MFS, Hyperion, LOCATE Valhalla MFS, TCG, NNI Valley Stream MFS, Hyperion, LOCATE Van Buren ACC, Frontier, Hyperion, Time Warner West Seneca MFS, Hyperion, LOCATE Westvale ACC, Frontier, Hyperion, Time Warner White Plains MFS, TCG Westvale ACC, Frontier, Hyperion, Time Warner White Plains MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Yonkers MFS  NORTH CAROLINA  Charlotte ICG,Charlotte Axs,LOCATE Durham FiberSouth, Time Warner Research Triangle Research Triangle Raleigh Intermedia, FiberSouth, Inc.  High Point  American Comm. Svcs. (ACSI), Intersate FiberNet American Comm. Svcs. (ACSI), Intersate FiberNet American Comm. Svcs. (ACSI), Intersate FiberNet Intermedia, FiberSouth, Inc.  IntelCom Group (ICG), DukeNet Comm. Inc. (DCI)		Tonawanda	MFS, Hyperion, LOCATE		
Valhalla Valley Stream Van Buren Van Buren West Seneca Westchester Westvale Westvale White Plains Williamsville Yonkers  NORTH CAROLINA  Charlotte Durham Research Triangle Raleigh  West, TCG, NNI  Valley Stream MFS, Hyperion, LOCATE Westron, LOCATE Westron, LOCATE Westron, LOCATE Westron, LOCATE Westron, LOCATE Westron, LOCATE Westron, LOCATE Acc, Frontier, Hyperion, Time Warner West Seneca MFS, TCG Westron, LOCATE Westron, LOCATE Westron, LOCATE Westron, LOCATE Westron, LOCATE Asheville Charlotte Charlotte Charlotte American Comm. Svcs. (ACSI), Intersate FiberNet American Comm. Svcs. (ACSI), Intersate FiberNet American Comm. Svcs. (ACSI), Intersate FiberNet American Comm. Svcs. (ACSI), Intersate FiberNet American Comm. Svcs. (ACSI), Intersate FiberNet American Comm. Svcs. (ACSI), Intersate FiberNet American Comm. Svcs. (ACSI), Intersate FiberNet American Comm. Svcs. (ACSI), Intersate FiberNet American Comm. Svcs. (ACSI), Intersate FiberNet IntelCom Group (ICG), DukeNet Comm. Inc. (DCI) Intersate FiberNet		Town Line	MFS, Hyperion, LOCATE		
Valley Stream Van Buren Van Buren West Seneca WFS, Hyperion, LOCATE Westchester Westvale White Plains Williamsville Yonkers WFS MFS NORTH CAROLINA  Charlotte Durham Research Triangle Research Triangle Raleigh  WFS, Hyperion, LOCATE MFS, TCG MFS, TCG MFS, TCG MFS, TCG MFS, TCG MFS, TCG MFS, TCG MFS, TCG MFS, TCG MFS, Hyperion, Time Warner MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE MFS MFS  Asheville American Comm. Svcs. (ACSI), Intersate FiberNet American Comm. Svcs. (ACSI), Intersate FiberNet Greensboro IntelCom Group (ICG), DukeNet Comm. Inc. (DCI) High Point High Point Interstate FiberNet	1	Uniondale	MFS, Hyperion, LOCATE		
Van Buren West Seneca Westchester Westvale White Plains Williamsville Yonkers  NORTH CAROLINA  Charlotte Durham Research Triangle Raleigh  ACC, Frontier, Hyperion, Time Warner Whry, Hyperion, Time Warner Westvale ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, LOCATE Westvale ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, LOCATE ACC, Frontier, Hyperion, LOCATE ACC, Frontier, Hyperion, LOCATE ACC, Frontier, Hyperion, LOCATE ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, LOCATE ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, LOCATE ACC, Frontier, Hyperion, Time Warner ACC, Frontier, Hyperion, LOCATE ACC, Frontier,		Valhalla	MFS, TCG, NNI	-	
West Seneca Westchester Westchester Westvale White Plains Williamsville Yonkers  NORTH CAROLINA  West Seneca Westchester WFS, TCG Westvale ACC, Frontier, Hyperion, Time Warner White Plains MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Westvale ACC, Frontier, Hyperion, Time Warner WFS, Hyperion, LOCATE Westvale ACC, Frontier, Hyperion, Time Warner WFS, Hyperion, LOCATE Westvale ACC, Frontier, Hyperion, Time Warner WFS, Hyperion, LOCATE Westvale ACC, Frontier, Hyperion, Time Warner AMES, TCG, NNI WFS, Hyperion, LOCATE WFS, Hyperion, LOCATE WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, Hyperion, LOCATE WFS, Hyperion, LOCATE WFS, Hyperion, LOCATE WFS, Hyperion, LOCATE WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, Hyperion, LOCAT	4	Valley Stream			
West Seneca Westchester Westchester Westvale White Plains Williamsville Yonkers  NORTH CAROLINA  West Seneca Westchester WFS, TCG Westvale ACC, Frontier, Hyperion, Time Warner White Plains MFS, TCG, NNI Williamsville MFS, Hyperion, LOCATE Westvale ACC, Frontier, Hyperion, Time Warner WFS, Hyperion, LOCATE Westvale ACC, Frontier, Hyperion, Time Warner WFS, Hyperion, LOCATE Westvale ACC, Frontier, Hyperion, Time Warner WFS, Hyperion, LOCATE Westvale ACC, Frontier, Hyperion, Time Warner AMES, TCG, NNI WFS, Hyperion, LOCATE WFS, Hyperion, LOCATE WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, Hyperion, LOCATE WFS, Hyperion, LOCATE WFS, Hyperion, LOCATE WFS, Hyperion, LOCATE WFS, Hyperion, LOCATE WFS, TCG, NNI WFS, Hyperion, LOCATE WFS, Hyperion, LOCAT		Van Buren	ACC, Frontier, Hyperion, Time Warner		
Westvale White Plains MFS, TCG, NNI Williamsville Yonkers MFS  NORTH CAROLINA  Charlotte Durham FiberSouth, Time Warner FiberNet Intermedia, FiberSouth, Inc.  Durham Research Triangle Raleigh FiberSouth, Inc.  Westvale ACC, Frontier, Hyperion, Time Warner American Comm. Svcs. (ACSI), Intersate FiberNet Charlotte American Comm. Svcs. (ACSI), Intersate FiberNet Greensboro American Comm. Svcs. (ACSI), Intersate FiberNet Greensboro IntelCom Group (ICG), DukeNet Comm. Inc. (DCI)  High Point Intersate FiberNet		West Seneca	MFS, Hyperion, LOCATE		
White Plains Williamsville Yonkers  NORTH CAROLINA  Charlotte Durham Research Triangle Raleigh  White Plains Williamsville MFS, TCG, NNI MFS, Hyperion, LOCATE MFS  Asheville Charlotte Charlotte Greensboro Regreensboro High Point  American Comm. Svcs. (ACSI), Intersate FiberNet Charlotte Greensboro Intercom Group (ICG), DukeNet Comm. Inc. (DCI) Intersate FiberNet Charlotte Greensboro Intercom Group (ICG), DukeNet Comm. Inc. (DCI) Intersate FiberNet Intersate FiberNet Charlotte Greensboro IntelCom Group (ICG), DukeNet Comm. Inc. (DCI) Intersate FiberNet		Westchester	MFS, TCG		
White Plains Williamsville Yonkers  NORTH CAROLINA  Charlotte Durham Research Triangle Raleigh  White Plains Williamsville MFS, TCG, NNI MFS, Hyperion, LOCATE MFS  Asheville Charlotte Charlotte Greensboro Regreensboro High Point  American Comm. Svcs. (ACSI), Intersate FiberNet Charlotte Greensboro Intercom Group (ICG), DukeNet Comm. Inc. (DCI) Intersate FiberNet Charlotte Greensboro Intercom Group (ICG), DukeNet Comm. Inc. (DCI) Intersate FiberNet Intersate FiberNet Charlotte Greensboro IntelCom Group (ICG), DukeNet Comm. Inc. (DCI) Intersate FiberNet		Westvale	ACC, Frontier, Hyperion, Time Warner		
NORTH CAROLINA  Charlotte Durham Research Triangle Raleigh  Charlotte Raleigh  Durham Research Triangle Raleigh  Durham Research Triangle Raleigh  NORTH CAROLINA  Charlotte Axs,LOCATE Durham FiberSouth,Time Warner Charlotte Ch		White Plains			
NORTH CAROLINA  Charlotte Durham Research Triangle Raleigh  Charlotte Durham Research Triangle Raleigh  Charlotte Durham Research Triangle Raleigh  Charlotte Durham Research Triangle Raleigh  Charlotte Asheville Charlotte Char		Williamsville	MFS, Hyperion, LOCATE		
Durham FiberSouth, Time Warner Charlotte American Comm. Svcs. (ACSI), Intersate FiberNet FiberNet FiberNet/ICI, Time Warner Greensboro Intermedia, FiberSouth, Inc.  Raleigh Intermedia, FiberSouth, Inc.  American Comm. Svcs. (ACSI), Intersate FiberNet Greensboro IntelCom Group (ICG), DukeNet Comm. Inc. (DCI)  High Point Intersate FiberNet		Yonkers	MFS		
Durham FiberSouth, Time Warner Charlotte Research Triangle Raleigh Intermedia, FiberSouth, Inc.  FiberSouth, Time Warner Charlotte Greensboro Greensboro Intermedia, FiberSouth, Inc.  Charlotte Greensboro Greensboro IntelCom Group (ICG), DukeNet Comm. Inc. (DCI)  High Point Interstate FiberNet	NORTH CAROLINA	Charlotte	ICG,Charlotte Axs,LOCATE	Asheville	American Comm. Svcs. (ACSI). Intersate FiberNet
Hesearch Triangle FiberNet/ICI,Time Warner Greensboro American Comm. Svcs. (ACSI), Interstate FiberNet  Raleigh Intermedia, FiberSouth, Inc.  High Point Interstate FiberNet		Durham			American Comm. Sycs. (ACSI), Intersate FiberNet
Raleigh Intermedia, FiberSouth, Inc. Greensboro IntelCom Group (ICG), DukeNet Comm. Inc. (DCI) High Point Interstate FiberNet		Research Triangle	FiberNet/ICI,Time Warner	1	
High Point Interstate FiberNet	;			i -	IntelCom Group (ICG) DukeNet Commune (ICC)
NORTH DAKOTA		_			Interstate FiberNet
	NORTH DAKOTA			ingiri onit	INCOME INDENIACE
				•	

STATE	EXISTING CITY/AREA	СР	PLANNED CITY/AREA	СР
OHIO	Akron	IntelComGroup	Butler	IntelCom
	Cincinnati	IntelCom Group, Time-Warner, Intermedia Comm. Inc.	Clark	IntelCom
1	Cleveland	MFS, MCI Metro	Cleveland	Time Warner
	Columbus	Intelcom Group, MCI Metro, Time Warner	Cleveland-Cuyahoga	City Signal, IntelCom, MFS, Time-Warner, TCG
- F	Dayton	MCI	Columbus-Franklin	MCI Metro, MFS
1	Lima	Time-Warner	Crawford	Cablevision
Ť.	Mansfield	Adelphia	Delaware	Fibertel, Time-Warner
	Marysville	Time-Warner	Erie	Cablevision
	Mason/Lebanon	Coaxial Cable	Geauga	Cablevision
1	Montrose	Teleport		
1	Toledo	Intelcom Group	Greene	City Signal
	Warren	TCI	Hamilton	City Signal, FiberNet, IntelCom, Western Union
:			Huran	Cablevision
			Lake	Cablevision
:			Lorain	Cablevision
			Lucas	City Signal, IntelCom
			Mahoning	City Signal, IntelCom
			Medina	Cablevision, IntelCom
			Montgomery	City Signal, IntelCom
		1	Montrose	IntelCom
; t		1	Morrow	Cablevision
			Oxford	Locate
. 102		•	Portage	IntelCom, Cablevision
4			Richland	Cablevision
			Summit	IntelCom, Time-Warner, Cablevision
			Tipp City	Time-Warner, IntelCom
			Toledo	US Signal
			Troy	Time-Warner, IntelCom
			Trumbell	City Signal, IntelCom
			Union	Fibertel
			Wayne	Cablevision
			Wood	City Signal, IntelCom
OKLAHOMA	Bethany	Brooks Fiber		
	Broken Arrow	Brooks Fiber	I	
	Catoosa	Brooks Fiber	i	
	Del City	Brooks Fiber		
	Midwest City	Brooks Fiber		
: :	Nichols Hills	Brooks Fiber		
	Nicoma Park	Brooks Fiber	1	
	Oklahoma City	Brooks Fiber Properties, Cox Fibernet, Dobson Fiber	Oklahoma City	Indian Nations Fibernet, Metro Access, MFS
	Owasso	Brooks Fiber	İ	
	Tulsa	Brooks Fiber Properties	Tulsa	MFS

STATE	EXISTING CITY/AREA	СР	PLANNED CITY/AREA	СР
OKLAHOMA (cont'd)	Turley Village Warr Acres	Brooks Fiber Cox FiberNet Cox FiberNet		
OREGON	Beaverton Portland	ELI, Columbia Cable, MFS Electric Lightwave, Paragon Cable, Pacnet	Portland	MCI Metro, MFS, Digital Direct
PENNSYLVANIA	Allegeny county Bucks County Carlisle Chambersburg Chester County Deleware County Erie Harrisburg Montgomery County Philadelphia Pittsburgh	MFS,TCG,TCI MFS,Eastern Telelogic Valleynet Valleynet MFS,Eastern Telelogic MFS,Eastern Telelogic Teleport, TCI Hyperion, Penn's Light, Valleynet MFS,Eastern Telelogic MFS, Eastern TeleLogic, MCI Metro MCI, MFS, TCG		
RHODE ISLAND	State of R. I. Providence	LOCATE TCG	State of R. I. Providence	Cox Cable MFS, Jones, Brooks, Cox Cable
SOUTH CAROLINA	Charleston Columbia Florence Greenville St. George	PalmettoNet, ACSI PalmettoNet PalmettoNet American Comm. Svcs. Inc. (ACSI) PalmettoNet	Charleston Columbia Greenville Spartanburg	ICG IntelCom Group (ICG), ACSI IntelCom Group (ICG), Interstate FiberNet IntelCom Group (ICG), Interstate FiberNet
SOUTH DAKOTA				
TENNESSEE	Memphis Nashville Germantown Bartlett	Signal Comm. Signal Comm., ICG Signal Comm. Signal Comm.	Chattanooga Knoxville Memphis Nashville Unspecified	American Comm. Svcs. (ACSI), E.W. Scripps/Hyperio (ACSI), E.W. Scripps/Hyperion, Brooks Fiber Time-Warner, Access Transmission Svcs. ACSI, Hyperion, Metro Access Networks Inc MCI Metro, MFS

STATE	EXISTING CITY/AREA	СР	PLANNED CITY/AREA	СР
TEXAS	Addison	MFS,TCG		:
ļ	Alamo Heights	TWC	:	i e e e e e e e e e e e e e e e e e e e
	Aldine	MFS, Phonoscope,TWC		
	Austin	Metro Access, Time Warner Comm. (TWC)	Austin	ACSI, City Signal, MCI Metro, MFS
)	Bellaire	MFS, Phonoscope,TWC	I .	Communications Transmission Group, Inc. (CTGI
	Brushy Creek	TWC	Bellaire	MCI Metro
,	Bunker Hill	Phonoscope,TWC	Corpus Christi	ASCI, Grenstar, Metro Access, TWC
	Carollton	MFS,TCG	·	CSW Communications, Inc.
	Castle Hills	TWC	El Paso	ACSI, Greenstar Telecommunications,
	China Grove	TWC	:	Metro Access, TWC of El Paso
	Converse	TWC	Harlingen	CSW
i	Coppell	TCG	Houston	MCI Metro
	Dallas	MFS,TCG	Laredo	TWC (Fibrcom)
	Denton	Teleport	· Lubbock	TCG
	Euless	TCG	McAlien	CSW
	Farmers Branch	MFS,TCG	San Antonio	Metro Access
	Fort Worth	ACSI,Metro Access, TCG	i	
	Garland	Teleport	2	
	Grapevine	TCG		
	Headwig	Phonoscope,TWC	1	
	Highland Park	MFS	4	
	Hill country	TWC		
	Hillshire	Phonoscope		· Committee of the comm
	Houston	MFS,Phonoscope,TCG, TWC of Houston		
	Hunters Creek	Phonoscope,TWC		
	Hurst	TCG		
	Irving	TCG	į.	
	Jersey Village	MFS,TWC	Ì	
	Jollyvile	TWC		
	Kirby	TWC	1	
	Lackland AFB	TWC		
	League City	TCG		
	Leon Valley	TWC		
	Lewisville	Teleport	1	!
	Live Oak	TWC	į	
	Mesquite	TCG		
	Mission Bend	TWC		
	Olmos Park	TWC	1	
	Pasadena	TCG		
	Piano	TCG, MFS		
	Piney Point	Phonoscope	•	
	Plano	MFS, TCG	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	Richardson	MCI Metro, MFS, TCg		

STATE	EXISTING CITY/AREA	СР	PLANNED CITY/AREA	СР
TEXAS	Richland Hills	TCG		
(Cont'd)	Roanoke	TCG		
	Rollingwood	TWC		
1	Round Rock	TWC		
	San Antonio	TWC (Fibrcom)		
1	Shavano Park	TWC (Fibroom)		•
	South Houtson	TCG		
	Southlake	TCG		
	Southside Place	TWC		
i	Spring	TWC		
	Spring Valley	Phonoscope, TWC		
	Terrell Hills	TWC	!	
	Trophy Club	TCG	i	
	Universal City	TWC	•	
	University Park	MFS, TCG	:	
	Webster Park	TCG		
	West Univ. Place	TWC		
	Westlake	TCG	:	
1	Westlake Hills	TWC		
	Windcrest	TWC		
1				
UTAH	Salt Lake City	Electric Lightwave	Salt Lake City	Phoenix FiberLink of Utah, Quest Comm.
VERMONT			State of Vt.	Hyperion
VIRGINIA	Alexandria Arlington Fairfax Falls Church Hampton Harrisonburg Lynchburg Newport News Norfolk Richmond Roanoke Virginia Beach	MFS, LOCATE MFS, LOCATE MFS, LOCATE,MCI Metro MFS, LOCATE Virginia Metrotel, Cox Fibernet CFW Network ValleyNet,ATS(MCI) Virginia Metrotel, Cox Fibernet Cox Cable, Virginia Metrotel Access Trans. Svcs.(MCI),MFS,Virginai Metrotel ValleyNet,ATS(MCI) Cox Cable, Virginia Metrotel	•	
			,	1
			1	

STATE	EXISTING CITY/AREA	СР	PLANNED CITY/AREA	СР
WASHINGTON	Bethell Everett Kirkland Seattle	ELI Teleport ELI, Teleport, MFS Electric Lightwave,TCG, MFS	Seattle Spokane	MCI Metro FiberLink/Tel-West
WEST VIRGINIA	Charleston Huntington	ValleyNet ValleyNet	•	
WISCONSIN	Dodgeville Milwaukee Wausau	Norlight MCI,MFS,Teleport TCI	Green Bay Milwaukee	Time Warner Time Warner
WYOMING				